

In the Claims:

1. Cancelled
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12. (Currently Amended) A device for producing at least one line, or a group of lines of electromagnetic radiation of the optical spectral range in a preselectable three-dimensional area, the at least one line, or the group of lines, are used as positioning aids, or geometry detection aids, the device comprising at least one conversion unit which is at least partially transparent to the electromagnetic radiation used and which can convert the electromagnetic radiation passing through

currently, a device for producing at least one line, or a group of lines of electromagnetic radiation of the optical spectral range in a preselectable three-dimensional area, the at least one line, or the group of lines, are used as positioning aids, or geometry detection aids, the device comprising at least one conversion unit which is at least partially transparent to the electromagnetic radiation used and which can convert the electromagnetic radiation passing through

interface of the refractive element the at least one line or the group of lines being formed in a given three-dimensional area, wherein the at least one optically functional interface of the at least one refractive element is divided into segments.

13. (Previously Presented) The device as claimed in claim 12, wherein the at least one optically functional interface of the at least one refractive element has a freely selectable configuration which is suitable for the at least one line or the group of lines to be produced.

14. Cancelled

15. (Currently Amended) The device as claimed in claim ~~12~~ ~~14~~, wherein the segments have the same size and have an identical shape.

16. (Currently Amended) Device as claimed in claim ~~12~~ ~~14~~, wherein the segments have a cylinder lens geometry, and wherein two groups of the segments, with cylinder axes of cylinder geometry, and the axes of the two groups being perpendicular to one another.

17. (Previously Presented) The device as claimed in claim 16, wherein the cylinder lens geometry of the segments is a spherical or an aspherical cylinder lens geometry.

18. (Previously Presented) The device as claimed in claim 12, wherein the at least one line is a straight line or a curved line.

19. (Previously Presented) The device as claimed in

20. (Previously Presented) The device as claimed in claim 12, wherein the at least one line or the group of lines are curved such that they image a planar orthogonal lattice, when they encounter a curved surface of a workpiece in a given three-dimension area on the latter.

21. (Previously Presented) The device as claimed in claim 12, wherein the device further comprises a laser light source for producing the electromagnetic radiation.

22. (Previously Presented) Robots for machining of workpieces comprising a device as claimed in claim 12.